

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	2	("6342925").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/23 09:35
L2	2	("2002135594").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/23 09:35
L3	2	("0163921").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/23 09:38
L4	0	(operation with histor\$3) with television with (access\$3 with control\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/23 09:38
L5	146	(operation with histor\$3) with (access\$3 with control\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/23 09:44
L6	2	5 and (program\$4 with guide)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/23 09:39
L7	9	(operation with histor\$3) with (program\$3 with guide)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/23 09:56
L8	3	((user or client) with (login or access\$3 or password or identification)) and 7	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/23 09:56

EAST Search History

L9	230	(operation with histor\$3) and (program\$3 with guide)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/23 09:56
L10	130	((user or client) with (login or access\$3 or password or identification)) and 9	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/23 10:24
L11	1	"625106".apn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/23 10:00
L12	0	"625106"".apn.10" and (predeterm\$3 with tim\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/23 10:01
L13	1	10 and (predeterm\$3 with tim\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/23 10:01
L14	47	10 and (operation with histor\$3 with tim\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/23 10:02
L15	19	14 and @ad<"20020723"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/23 10:19
L16	14	14 and @ad<"20020723" and (routine with operation)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/23 10:19

EAST Search History

L17	14	14 and @ad<"20020723" and (time with routine with operation)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/23 10:22
L18	14	10 and @ad<"20020723" and (time with routine with operation)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/23 10:22
L19	354	((user or client) with (login or access\$3 or password or identification)) and @ad<"20020723" and (time with routine with operation)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/23 10:29
L20	16	19 and (operation with histor\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/23 10:23
L21	16	19 and (operation with histor\$3)and @ad<"20020723" and (time with routine with operation)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/23 10:24
L22	61	(operation with histor\$3) and @ad<"20020723" and (time with routine with operation)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/23 10:24
L23	16	((user or client) with (login or access\$3 or password or identification or id)) and 22	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/23 10:24
L24	16	(operation with histor\$3) and @ad<"20020723" and (time with routine with operation) and (program\$4 with guide)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/23 10:43

EAST Search History

L25	16	(operation with histor\$3) and @ad<"20020723" and (routine with operation) and (program\$4 with guide)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/23 10:28
L26	48	@ad<"20020723" and (time with routine with operation) and (program\$4 with guide)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/23 10:28
L27	23	((user or client) with (login or access\$3 or password or identification or id)) and 26	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/23 11:15
L28	16	(operation with histor\$3) and @ad<"20020723" and (routine with operation) and (program\$4 with guide)and (tim\$3 with control\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/23 10:44
L29	73	(operation with histor\$3) and @ad<"20020723" and (program\$4 with guide)and (tim\$3 with control\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/23 10:45
L30	518	(operation with histor\$3) and @ad<"20020723" and (remote with control\$4)and (tim\$3 with control\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/23 10:45
L31	518	(operation with histor\$3) and @ad<"20020723" and (remote with control\$4) and (tim\$3 with control\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/23 10:50
L32	7	31 and (time with routine with operation)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/23 10:50

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L33	366	(operation with histor\$3) and @ad<"20020723" and (control\$4 with process\$3).ab. and (tim\$3 with control\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/23 10:51
L34	3	33 and (time with routine with operation)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/23 10:50
L35	7	(operation with histor\$3) and @ad<"20020723" and (control\$4 with process\$3).ab. and (tim\$3 with routine with operat\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/23 10:54
L36	10	(program\$4 with guide) and @ad<"20020723" and (control\$4 with process\$3).ab. and (tim\$3 with routine with operat\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/23 10:55
L37	0	(program\$4 with guide) and @ad<"20020723" and (control\$4 with process\$3).ab. and (tim\$3 with hitor\$4 with operat\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/23 11:03
L38	0	@ad<"20020723" and (control\$4 with process\$3).ab. and (tim\$3 with hitor\$4 with operat\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/23 11:03
L39	620	@ad<"20020723" and (control\$4 with process\$3).ab. and (histor\$3 with operation)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/23 11:10
L40	128	(tim\$3 with perform\$4 with process\$3) and 39	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/23 11:04

EAST Search History

L41	18	((user or client) with (login or access\$3 or password or identification or id)) and 40	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/23 11:05
L42	168	@ad<"20020723" and (control\$4 with process\$3).ab. and (tim\$3 with histor\$3 with operation)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/23 11:10
L43	69725	@ad<"20020723" and (control\$4 with process\$3).ab. and (tim\$3 with control\$4 with process\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/23 11:14
L44	50	@ad<"20020723" and (control\$4 with process\$3).ab. and (histor\$3 with operation with (count\$3 or weight\$3 or degree))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/23 11:18
L45	5	((user or client) with (login or access\$3 or password or identification or id)) and 44	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/23 11:15
L46	3	@ad<"20020723" and (control\$4 with process\$3).ab. and (histor\$3 with operation with (count\$3 or weight\$3 or degree)) and television	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/23 11:31
L47	32	@ad<"20020723" and (control\$4 with process\$3).ab. and (histor\$3 with operation) and television	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/23 11:33
L48	83	@ad<"20020723" and (control\$4 with process\$3).ab. and (histor\$3 with operation) and ((user or client) with (login or access\$3 or password or identification or id))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/23 11:36

EAST Search History

L49	9	47 and 48	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/23 11:33
L50	52	@ad<"20020723" and (program\$3 with guide) and (histor\$3 with operation) and ((user or client) with (login or access\$3 or password or identification or id))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/23 11:44
L51	0	50 and (weight with factor)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/23 11:40
L52	0	50 and ((weight or count\$3) with occurenc\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/23 11:40
L53	30	@ad<"20020723" and (program\$3 with guide) and (histor\$3 with operation) and ((user or client) with (login or access\$3 or password or identification or id)) and television	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/23 13:15
L54	2	("20030051247").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/23 13:15
L55	2	("20020188947").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/23 13:19
L56	2	48 and (707/102).ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/23 13:20

EAST Search History

L57	0	48 and (725/58).ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/23 13:23
L58	2	("20060053219").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/04/23 13:23

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[PDF] [Development and features of a TV navigation system - Consumer ...](#)

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using a personalized electronic **program guide** (EPG) and ... **operation history**. In our TV navigation system the viewer sets ...

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factor for this **weight** of hog is 0.3 (meaning, for example, ... facility has not reported a manure spill or pit overflow during its **operation history**. ...

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Broadcast program providing system, broadcast reception terminal ...

[0158] (4-4) Based on the remote **control operation history** item, the Save ECG button operation **time**, and the channel number pressed immediately before, ...
www.freepatentsonline.com/20050278745.html - 115k - [Cached](#) - [Similar pages](#)

Operation history utilization system and method thereof - Patent ...

The **operation history** utilization method according to claim 36, the method comprising steps of: storing **operation history** data in which date and **time** of an ...
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EP1292135 Pioneer european software patent - Program record ...

2000-350130 describes realizing the **time** shift playback capability only by the **control** means providing simple **control** information such as a position of a ...
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EP1079314 Sharp european software patent - Apparatus and method of ...

The input **operation history** data includes, for example, home page data of the Internet, and EPG (Electronic **Program Guide**) data which is an information item ...
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This is called. a personal electric **program guide** P-EPG. The experimental. system guides all the programs within the waiting **time** given ...
ieeexplore.ieee.org/iel5/30/31480/01468017.pdf?isnumber=&arnumber=1468017 - [Similar pages](#)

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such as **time** and location, can be called up at the simple press. of a button, using a portable remote **control** device equipped ...
www.nhk.or.jp/strl/results/annual2003/en/annual2003-rr11e.pdf - [Similar pages](#)

Program, Message, Or Commercial Insertion Or Substitution - Based ...

The broadcaster markets television air-**time** to direct-mail advertisers and ... An interactive television **program guide** system for determining user input ...
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Interactive video distribution systems patents 200506

Selectable **program guide** options correspond to more specific program... 20050144639 - Apparatus and method for controlling program: A program **control** in a ...
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Content processing apparatus and content processing method for ...

The receiver may receive as the operation data **time**-space position data designating a ... an electronic **program guide** (EPG)) may be extracted and stored. ...
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control disease causation are survival **time** and ability to migrate through ... has not reported a manure spill or pit overflow during its **operation history**. ...

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television program guide for family use [5] and a system using ...
operation history and assists viewer to select programs by ...
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using a personalized electronic **program guide** (EPG) and ...
operation history. In our **TV** navigation system the viewer
sets ...

ieeexplore.ieee.org/iel5/30/28185/01261192.pdf?

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[Operation history utilization system and method thereof - Patent ...](#)

There is provided an **operation history** utilization system which
includes a ... for example, there is an Electronic **Program Guide** (EPG)
for **TV** programs, ...

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[Broadcast program recording apparatus and method for recording ...](#)

A receives an analog **television** broadcast wave of the designated channel. ... the received
broadcast program from the electronic **program guide** information ...

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from the previous week's **program guide**, displayed on the **TV** screen (Figure). ... viewer's
operation history and viewer information-related, technology. ...

www.nhk.or.jp/strl/results/annual2003/en/annual2003-rr11e.pdf - [Similar pages](#)

[EP1292135 Pioneer european software patent - Program record ...](#)

The user history database 11b stores the **operation history** of the user in ... [0052] The
non-volatile memory 11 also stores a **program guide** to be broadcast. ...

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[EP1079314 Sharp european software patent - Apparatus and method of ...](#)

10, 11 and 12 are flow charts schematically showing an **operation history** data ... **Program**
Guide) data which is an information item of a **television** program. ...

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[Program, Message, Or Commercial Insertion Or Substitution - Based ...](#)

The interactive **television** system may use an interactive **television program guide** or
other interactive applications to provide interactive **television** ...

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Interactive video distribution systems patents 200506

20050138656 - Interactive **television program guide** with enhanced user ... thereof: There are provided preference **operation history** managing means 101 for ...

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Content processing apparatus and content processing method for ...

... the **operation history**, such as fast-forward, pause, rewind, etc., on the content ... an electronic **program guide** (EPG)) may be extracted and stored. ...

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Information processing apparatus and information processing method ...

... (program metadata) such an electronic **program guide** (EPG) or the like. ... The **operation history** obtaining means can divide the obtained **operation** ...

www.patentdebate.com/PATAPP/20060294093 - Supplemental Result - [Similar pages](#)

Furdlog » 2005 » April

The service offers users a broad selection of free public programs with a simple **TV**-style **program guide** and automatic background deliveries of favorite ...

msl1.mit.edu/furdlog/?m=200504 - 223k - Supplemental Result - [Cached](#) - [Similar pages](#)

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The input **operation history** data includes, for example, home page data of the Internet, and EPG. (Electronic **Program Guide**) data which is an information ...

https://.../PublicationServer/documentpdf.jsp?

iDocId=5007707&iebug=.pdf - Supplemental Result - [Similar pages](#)

[PDF] *EP001292135A2*

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cast or a **television** broadcast and, more specifically, to. a program record and playback system ... an **operation history** of the user, wherein the playback ...

https://.../PublicationServer/documentpdf.jsp?iDocId=5346093&iebug=.pdf - Supplemental Result - [Similar pages](#)

Billboard PostPlay: April 2005

... an exciting new medium for **TV** broadcasters and record companies that is piracy-free, ... which will be indexed in a **program guide** similar to TiVo's. ...

billboard.blogs.com/billboardpostplay/2005/04/index.html - 250k - Supplemental Result - [Cached](#) - [Similar pages](#)

Alden Library New Books June 2005

Essay writing step-by-step : a Newsweek Education **Program guide** for teens ... a companion to the PBS **television** series MacNeil, Robert, 1931- ...

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11 Jun History: This Date

By joining forces with TCI, owner of the oft-visited Prevue Channel, a **program guide** for cable **television**, the News Corp. positioned **TV Guide** to become a ...

www.safran-arts.com/42day/history/h4jun/h4jun11.html - 110k - Supplemental Result - [Cached](#) - [Similar pages](#)

esp@cenet description view

5-328243 describes temporarily recording **television** programs in a storage ... with a user

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Complete TV Listings

NYTimes.com presents an interactive guide to your local programming www.nytimes.com

Virginia Television guide

Find **television** guide here. We offer local search in your state virginia.local.com Virginia

history database for storing an **operation history** of the user, ...
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GRAMMY.com - News

1, Parents **Television** Council President Brent Bozell announced he will hand ... Web site's
tips and reviews into customers' cable **program guide** experience. ...
www.grammy.com/GRAMMY_Awards/News/Default.aspx?
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1 [Interactive television: new genres, new format, new content](#)

Jens F. Jensen

 November 2005 **Proceedings of the second Australasian conference on Interactive entertainment IE2005**

Publisher: Creativity & Cognition Studios Press

 Full text available: [pdf\(248.67 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

The aim of this paper is to discuss some of the main issues associated with interactive genres, formats and content in the context of interactive television (ITV). First, a set of new forms or categorizations of ITV will be presented. Second, the suite of interactive genres, formats and applications that currently constitutes ITV will be introduced and discussed. And third, some general conclusions concerning interactivity, television and the interactive user/viewer will be drawn.

Keywords: ITV advertising, Media Theory, T-commerce, art, design and media, cultural and media studies, digital television, electronic program guides, enhanced TV, games and betting, interaction design, interactive television, interactive, digital storytelling, internet at TV, networking (technical and social), new genres, new standards, personalized TV, the interactive viewer/user, video-on-demand

2 [3d animation and iTV: Affective usability evaluation for an interactive music television channel](#)



Konstantinos Chorianopoulos, Diomidis Spinellis

 July 2004 **Computers in Entertainment (CIE)**, Volume 2 Issue 3

Publisher: ACM Press

 Full text available: [pdf\(481.36 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Computer-mediated television brings new requirements for user interface design and evaluation, since interactive television applications are deployed in a relaxed domestic setting and aim to gratify the need for entertainment. Digital video recorders, the generation of custom computer graphics on each digital set-top box, and the introduction of new advertising formats are important issues for research and practice. We explore the employment of an animated character and the dynamic insertion ...

Keywords: TiVo, affective usability, animated character, interactive television, music video, set-top box, user interface

3 User interfaces for digital television: a navigator case study



Leena Eronen, Petri Vuorimaa

May 2000 **Proceedings of the working conference on Advanced visual interfaces AVI '00**

Publisher: ACM Press

Full text available: [pdf\(1.01 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Digital television user interfaces are composed of text, graphics and video. Usability issues that arise include information visualization, searching and navigation. This paper introduces two user interface prototypes for digital television. Both prototypes were tested with real users and the test results are discussed.

Keywords: digital television, navigation, prototypes, usability, user interfaces

4 Q focus: purpose-built systems: TiVo-lution



Jim Barton

April 2006 **Queue**, Volume 4 Issue 3

Publisher: ACM Press

Full text available: [pdf\(626.60 KB\)](#)

[htm\(34.98 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The challenges of delivering a reliable, easy-to-use DVR service to the masses

5 Limited vision: the techno-political war to control the future of digital mass media



Craig Birkmaier

August 1997 **netWorker**, Volume 1 Issue 2

Publisher: ACM Press

Full text available: [pdf\(623.50 KB\)](#)

Additional Information: [full citation](#), [references](#), [index terms](#)

6 A digital television navigator



Chengyuan Peng, Petri Vuorimaa

October 2000 **Proceedings of the eighth ACM international conference on Multimedia MULTIMEDIA '00**

Publisher: ACM Press

Full text available: [pdf\(373.11 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [index terms](#)

Digital television is a new, interesting, and rich platform for developing next generation multimedia services. One of the key digital television standards is Multimedia Home Platform (MHP) which includes hardware devices and software architecture. Navigator is the most important multimedia service of digital television. It acts the main index of all the services available in set-top box. In this paper we presented a Java Navigator developed in Future TV project.

Keywords: Java, MHP, SI, digital television, multimedia service, navigator, network, set-top box, transport stream

7 Designing mobile interaction: Design requirements for mobile TV

Hendrik Knoche, John D. McCarthy



September 2005 **Proceedings of the 7th international conference on Human computer interaction with mobile devices & services MobileHCI '05**

Publisher: ACM Press

Full text available: pdf(469.88 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper we examine the interaction and delivery requirements for Mobile TV. By comparing the features of traditional TV with current Mobile TV services we outline the design requirements for a future Mobile TV interface. The proposed design is implemented on an iPAQ and evaluated with end-users in a field trial. Preliminary results of the user study suggest that use of the interface is intuitive and successful in giving a TV-like experience. As a secondary study we investigate the bandwidth ...

Keywords: SDMB, TV, bandwidth, mobile, satellite

8 Multimodal interaction: research papers: The prospects for unrestricted speech input for TV content search

Kent Wittenburg, Tom Lanning, Derek Schwenke, Hal Shubin, Anthony Vetro

May 2006 **Proceedings of the working conference on Advanced visual interfaces AVI '06**

Publisher: ACM Press

Full text available: pdf(344.54 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The need for effective search for television content is growing as the number of choices for TV viewing and/or recording explodes. In this paper we describe a preliminary prototype of a multimodal Speech-In List-Out (SILO) interface in which users' input is unrestricted by vocabulary or grammar. We report on usability testing with a sample of six users. The prototype enables search through video content metadata downloaded from an electronic program guide (EPG) service. Our setup for testing inc ...

Keywords: electronic program guides, information retrieval, multi-modal interfaces, speech interfaces, television interfaces

9 Interactive television systems

Borko Furht

February 1996 **Proceedings of the 1996 ACM symposium on Applied Computing SAC '96**

Publisher: ACM Press

Full text available: pdf(446.46 KB) Additional Information: [full citation](#), [references](#), [index terms](#)

10 News on-demand for multimedia networks

Gene Miller, Greg Baber, Mark Gilliland

September 1993 **Proceedings of the first ACM international conference on Multimedia MULTIMEDIA '93**

Publisher: ACM Press

Full text available: pdf(106.03 KB) ps(1.21 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: authoring, database, digital video, information service, messaging, networked multimedia, news, retrieval, wideband

11 Content management: Dynamic program insertion in high quality video over IP



Taehyun Kim, Jack Brassil

June 2003 **Proceedings of the 13th international workshop on Network and operating systems support for digital audio and video NOSSDAV '03**

Publisher: ACM Press

Full text available: pdf(269.10 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We introduce an overlay network architecture and signaling mechanism that permit program insertions in live, high quality video streams transmitted over IP networks. We describe the implementation of an application proxy that dynamically inserts pre-recorded video programs into NTSC D1 quality Motion-JPEG streams with no visible artifacts. As increases in computing power further enable the modification of video during transport, new services such as personalized commercial advertisement insertio ...

Keywords: content delivery networks (CDNs), digital television (DTV), multimedia signaling, program and system information protocol (PSIP), program cues, real-time transport protocol (RTP), video streaming

12 Features: From Server Room to Living Room



Jim Barton

July 2003 **Queue**, Volume 1 Issue 5

Publisher: ACM Press

Full text available: pdf(1.85 MB) html(39.52 KB) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

The open source movement, exemplified by the growing acceptance of Linux, is finding its way not only into corporate environments but also into a home near you. For some time now, high-end applications such as software development, computer-aided design and manufacturing, and heavy computational applications have been implemented using Linux and generic PC hardware.

Now, Linux and open source software are making inroads at the other end of the computing spectrum. TiVo, the fir ...

13 Short papers: social: Translating principles of web design and information architecture to the development of interactive television (iTV) interfaces



Linda Leung, Scott Bryant, Adrienne Tan

November 2006 **Proceedings of the 20th conference of the computer-human interaction special interest group (CHISIG) of Australia on Computer-human interaction: design: activities, artefacts and environments OZCHI '06**

Publisher: ACM Press

Full text available: pdf(103.20 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper discusses the application of information and interaction design principles to the design of iTV (Interactive TV) applications. It details the authors' experiences of teaching a subject in Digital Information & Interaction Design as part of a postgraduate program in Interactive Multimedia. Students worked on a design project for a common client - Austar, a Subscription TV and iTV service provider in rural and regional Australia - in which they developed the information architecture and ...

Keywords: HCI education, information architecture principles, interactive television, web design deliverables

14 The personal electronic program guide—towards the pre-selection of individual TV



programs

Michael Ehrmantraut, Theo Härder, Hartmut Wittig, Ralf Steinmetz

November 1996 **Proceedings of the fifth international conference on Information and knowledge management CIKM '96****Publisher:** ACM PressFull text available: [pdf\(923.87 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)15 Risks to the public in computer systems 

Peter G. Neumann

April 1986 **ACM SIGSOFT Software Engineering Notes**, Volume 11 Issue 2**Publisher:** ACM PressFull text available: [pdf\(1.41 MB\)](#) Additional Information: [full citation](#), [index terms](#)16 A spoken dialogue interface for TV operations based on data collected by using WOZ method

Jun Goto, Yeun-Bae Kim, Masaru Miyazaki, Kazuteru Komine, Noriyoshi Uratani

July 2003 **Proceedings of the 41st Annual Meeting on Association for Computational Linguistics - Volume 2 ACL '03****Publisher:** Association for Computational LinguisticsFull text available: [pdf\(71.52 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

The development of multi-channel digital broadcasting has generated a demand not only for new services but also for smart and highly functional capabilities in all broadcast-related devices. This is especially true of the television receivers on the viewer's side. With the aim of achieving a friendly interface that anybody can use with ease, we built a prototype interface system that operates a television through voice interactions using natural language. At the current stage of our research, we ...

17 Technical papers: software architecture: Building product populations with software components 

Rob van Ommering

May 2002 **Proceedings of the 24th International Conference on Software Engineering ICSE '02****Publisher:** ACM PressFull text available: [pdf\(1.29 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Two trends have made reuse of embedded software for consumer electronics an urgent issue: the software of individual products becomes more and more complex, and the market demands a larger variety of products at an increasing rate. For that reason, various business groups within Philips organize their products as product families. A third trend is the integration of functions that until now were only found in separate products (e.g. a TV with Dolby Digital sound and a built-in DVD player). This ...

Keywords: architectural description language, component based development, configuration management, diversity, product family, product population

18 Applications on the go: MediaAlert - a broadcast video monitoring and alerting system for mobile users 

Bin Wei, Bernard Renger, Yih-Farn Chen, Rittwik Jana, Huale Huang, Lee Begeja, David Gibbon, Zhu Liu, Behzad Shahraray

June 2005 **Proceedings of the 3rd international conference on Mobile systems, applications, and services MobiSys '05**

Publisher: ACM Press

Full text available:  [pdf\(593.10 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

We present a system for automatic monitoring and timely dissemination of multimedia information to a range of mobile information appliances based on each user's interest profile. Multimedia processing algorithms detect and isolate relevant video segments from over twenty television broadcast programs based on a collection of words and phrases specified by the user. Content repurposing techniques are then used to convert the information into a form that is suitable for delivery to the user's mobile ...

Keywords: alerting, automatic speech recognition (ASR), content adaptation, content repurposing, mobile devices, multimedia messaging, multimedia processing, news monitoring, notification, service platform

19 Work-in-progress: Sharable digital TV: relating ethnography to design through un-
useless product suggestions



Jisoo Park, Mark Blythe, Andrew Monk, David Grayson

April 2006 **CHI '06 extended abstracts on Human factors in computing systems CHI '06**

Publisher: ACM Press

Full text available:  [pdf\(1.16 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The results presented here are part of an in depth study of current digital TV usage carried out for a manufacturer of domestic appliances. A systematic review of the literature revealed a set of issues that informed the design of an ethnographic study of five households of differing type. The concerns identified were then further explored through sketch-based conceptual designs, four of which are reported here. They are: (i) putting the Electronic Program Guide (EPG) onto a mobile phone to faci ...

Keywords: concept design, ethnography, interactive TV, scenarios

20 The ATSC data broadcast Standard



Regis J. Crinon, Edwin A. Heredia

November 2000 **Proceedings of the 2000 ACM workshops on Multimedia MULTIMEDIA '00**

Publisher: ACM Press

Full text available:  [pdf\(399.25 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

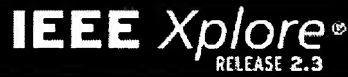
The Advanced Television Systems Committee (ATSC) is about to complete its data broadcast standard. This specification will enable multimedia content providers to deliver applications using the broadband channels of digital television. This specification will also enable the integration of data based information technologies and television audio-visual services. The purpose of the paper is to provide a description of the most important principles making up the specification. More specifically, ...

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